

WHAT IS CLAIMED IS

1. An audio mixer comprising
an effect algorithm processor inserted into each signal path of a plurality of channels of audio signals;
an addition processor for performing an addition processing of audio signals delivered from respective effect algorithm processors to deliver a single channel signal;
an in-plane position sensor for delivering the position of a maneuvered point on a operating surface in the form of a first and a second position signal which represent positions in mutually crossing two directions on the operating surface;
and a controller responsive to the first and the second position signal delivered by the in-plane position sensor by applying a control parameter to at least one of the effect algorithm processors and the addition processor to control at least one of a plurality of responses which are provided by the effect algorithm processors and an addition ratio effected by the addition processor.
2. An audio mixer according to Claim 1 in which one of the effect algorithm processor has a variable low pass filter function while the other has a variable high pass filter function, and in which the first and the second position signal are control parameters controlling the cut-off frequencies and the respective attenuations of the variable low pass and the variable high pass filter, and in which the first position signal represents a control parameter controlling an addition ratio effected by the addition processor.
3. An audio mixer according to Claim 1 in which either one or both of the effect algorithm processors have a reverberation adding function, and in which the first position signal represents a control parameter for

controlling the volume of reverberated tones produced by the reverberation adding function while the second position signal represents a control parameter controlling the addition ratio effected by the addition processor.

4. An audio mixer according to Claim 1 in which the effect algorithm processor which is inserted in either one of the audio signal paths has an effector function in which the first and the second position signal are control parameters for controlling the condition of the effector, the controller including means for controlling the effector function to a condition in which it is connected in the path of the audio signal when the position signals are being produced by the in-plane position sensor and to a pass-through condition when the position signals are not produced.

5. An audio mixer according to Claim 4 in which the effector function is a reverberation adding effector function.

6. An audio mixer according to Claim 4 in which the effector function is an echo adding effector function.

7. An audio mixer according to Claim 1 in which the controller includes position storage means which stores the first and the second position signal delivered by the in-plane position sensors and which delivers the stored first and second position signals as control parameters.

8. An audio mixer according to Claim 1, in which the addition processor and the effect algorithm processors are implemented in a digital arithmetic unit, and the controller is implemented by a microcomputer.

9. An audio mixer according to Claim 1 further comprising a mode changeover switch, the respective effect algorithm processors having functions which are configured in accordance with a mode established by the mode changeover switch.

10. An audio mixer according to Claim 1 in which the position

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sensor has an operating surface which, when depressed, delivers a first and a second position signal, further comprising a pressure sensor disposed in overlapping relationship with the position sensor for detecting a force of depression applied to the operating surface of the position sensor, the controller applying a detection signal from the pressure sensor to one of the effect algorithm pressures as a control parameter which controls the response thereof.

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